aiwa

COMPACT disc DIGITAL AUDIO

OPERATING INSTRUCTIONS
MANUAL DE INSTRUCCIONES
MODE D'EMPLOI

CDC-X517M YU
CDC-X417 YU
CDC-X317 YU

STEREO CAR CD RECEIVER
RADIO-TOCADISCOS DE CD ESTEREOFONICO PARA AUTOMOVIL

ENGLISH

ESPAÑOL

FRANÇAIS

OWNER'S RECORD

For your convenience, record the model number and serial number (you will find them on the bottom side of your set) in the space provided below. Please refer to them when you contact your AIWA dealer in case of difficulty.

Model No.	CDC-X517M, CDC-X417, CDC-X317
Serial No.	

PRECAUTIONS

- Use only in a 12-volt DC negative-ground electrical system.
- Disconnect the vehicle's negative battery terminal while mounting and connecting the unit.
- When replacing the fuse, be sure to use one with an identical amperage rating. Using a fuse with a higher amperage rating may cause serious damage to the unit.
- Do NOT attempt to disassemble the unit. Laser beams from the optical pickup are dangerous to the eyes.
- Make sure that pins or other foreign objects do not get inside the unit; they may cause malfunctions, or create safety hazards such as electrical shock or laser beam exposure.
- When your vehicle has been parked in direct sunlight resulting in a considerable rise in the temperature inside, allow the unit to cool off before operating it.
- Keep the volume at a level at which you can hear outside warning sounds (horns, sirens, etc.).

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Modifications or adjustments to this product, which are not expressly approved by the manufacturer, may void the user's right or authority to operate this product.

In addition to ordinary CDs, CD-Rs or CD-RWs can be read by this unit. However, NEVER use a CD-R or CD-RW that contains no data or data in the wrong format, such as MP3 or other computer files.

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Notes

- These operating instructions cover the CDC-X517M, CDC-X417, and CDC-X317.
- The figures in these operating instructions show the CDC-X517M.
- Some buttons are assigned two or more functions. For detailed descriptions, refer to the related pages.

	CDC-X517M	CDC-X417, CDC-X317
CD changer (optional) control function	yes	no

CD Notes

- Playing a defective or dusty CD can cause dropouts in sound.
- Hold CDs as illustrated.
- Do NOT touch the unlabeled side.
- Do NOT attach any seal, label or data protection sheet to either side of a disc.
- Do NOT expose a CD to direct sunlight or excessive heat.
- Wipe a dirty CD from the center outward with a cleaning cloth.
  Never use solvents such as benzine or alcohol.
- This unit cannot play 3-inch (8 cm) CDs.
- NEVER insert a 3-inch CD contained in the adapter or any irregularly shaped CD.
  The unit may not be able to eject it, resulting in a malfunction.

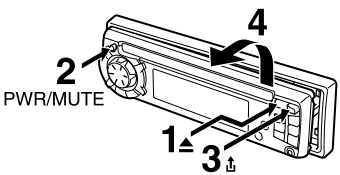
THEFT PROTECTION

Take the front panel with you when leaving the car, and keep it in the supplied carrying case.

Detaching the front panel

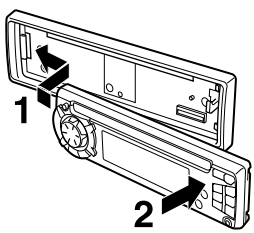
Before detaching the front panel, remove the CD to prevent possible damage to the unit.

1 Press ⏏ to remove the CD.
2 Press and hold **PWR/MUTE** until the unit turns off.
3 Press ⇩. (Hold the panel with one hand to prevent accidentally dropping it.)
4 Remove the panel.



Attaching the front panel

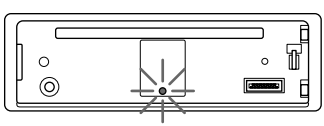
1 Engage the left side of the front panel to the left catch on the unit.
2 Push the panel forward until it locks. Be sure not to press any buttons while you are attaching the panel.



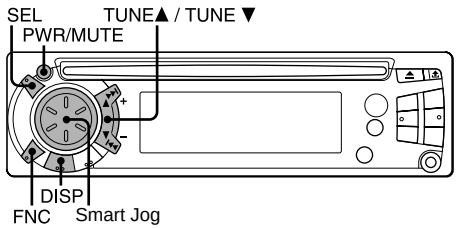
Note
Do not touch the front panel connector. This could cause a poor or faulty connection.

Security lamp

The security lamp will continue to flash while the front panel is detached from the unit.



BASIC OPERATION, AUDIO AND CLOCK ADJUSTMENT



Turning the unit on/off

- Press **PWR/MUTE** to turn on the unit. The unit also turns on when you insert a CD.
- Press and hold **PWR/MUTE** until the unit turns off.

Note
Most operations described in this manual require the unit to be turned on before starting the operation, unless explicitly stated otherwise.

Changing the source mode

1 Press **FNC**.
Pressing **FNC** cycles through source modes in the following order:

FM1→FM2→FM3→AM1→AM2→CD*→CD-CH**→AUX

* "CD" does not appear in the display when there is no CD in the unit.
**CD Changer Play mode (CDC-X517M only, available when an optional CD Changer is connected)

Adjusting the volume

1 Turn the Smart Jog.
VOL (volume) indicator flashes.

Muting the sound

1 Press **PWR/MUTE** briefly.
To restore volume, briefly press **PWR/MUTE** again.

Adjusting sound

You can select the following modes for adjusting sound depending on the music you listen to: BASS (low frequencies), TRE (high frequencies), BAL (left/right), FAD (front/ rear) and H-BASS (high bass)

1 Press **SEL** repeatedly to select the mode to be adjusted.
Pressing **SEL** cycles through the modes. The selected mode's indicator flashes.
2 Turn the Smart Jog to increase or decrease the level for the selected mode (except for H-BASS).
In H-BASS mode, turn the Smart Jog to select on or off.

Note
Adjust the level or select on/off within 5 seconds, or the selected mode will return to previous state.

Aligning the source levels

(Source Level Adjuster)

Volume may vary each time you change the source mode. In this case, you can align each source mode's volume to almost the same level.

1 Press **FNC** repeatedly to select the desired mode.
2 Press **DISP** while pressing **SEL**.
"LA 0" appears in the display.
3 Turn the Smart Jog to adjust the level.

Note
Adjust the level within 5 seconds, or the selected mode will be canceled.

Restoring the factory settings

1 Turn off the unit.
2 Press and hold **DISP** until "LA --" appears in the display.

Note
You can restore the factory settings only for VOL, BASS, TRE, BAL, FAD, and H-BASS, and aligned source volume levels.

Muting button beep sounds

1 Turn off the unit.
2 Press and hold **SEL** until "bEEP" appears in the display.
3 Turn the Smart Jog to select on (level indicators appear) or off (level indicators disappear).
4 Press and hold **SEL** until the unit turns off.

Setting the clock

1 Press and hold **DISP** until the clock indicator flashes in the display.
2 Press **TUNE▲** (to set hour) or **TUNE▼** (to set minute) and turn the Smart Jog.
3 Press **DISP**.

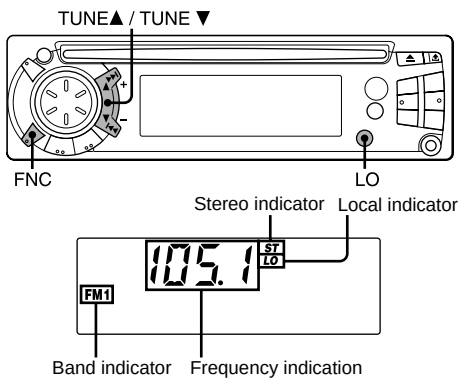
Displaying the clock

1 Press **DISP**.
To return to the former display, press **DISP** again.

RADIO OPERATION

Tuning in to a station

(Seek/Manual Tuning)



1 Press **FNC** repeatedly to select the desired band (FM1, FM2, FM3, AM1 or AM2).
2* Press **TUNE▲** (to move to higher frequencies) or **TUNE▼** (to move to lower frequencies) to tune in to a station.
"ST" appears in the display when a station is broadcasting in stereo, and receiving conditions are good.

***Seek Tuning and Manual Tuning**
- Press and hold **TUNE▲** or **TUNE▼** until seek Tuning starts.
The unit locates a station automatically (Seek Tuning).
- Press **TUNE▲** or **TUNE▼** repeatedly to search for a desired station while increasing or decreasing the frequency step by step (Manual Tuning).

To stop Seek Tuning, press **TUNE▲** or **TUNE▼** again.

Monaural mode
When signals become weak, or reception becomes poor, the unit automatically switches to Monaural mode to reduce noise.

Local mode

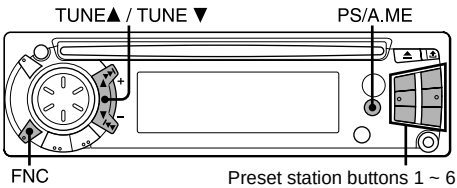
Local mode allows you to tune in only to strong stations during Seek Tuning.

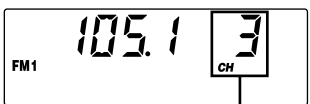
1 Press **LO** before you start seek tuning.
"LO" appears in the display.

To return to Distant mode, press **LO** again.
"LO" disappears and the unit tunes in to all receivable stations.

Using preset stations

You must preset stations before you can tune in a station using preset station number buttons.





Presetting stations automatically

(Auto Memory)

1 Press **FNC** repeatedly to select the desired band (FM1, FM2, FM3, AM1 or AM2).

2 Press and hold **PS/A.ME** until automatic presetting starts.
The unit automatically stores up to 6 stations for each band.
After completion of automatic presetting, the unit tunes in to the station stored on preset station button 1.

To cancel automatic presetting, press **PS/A.ME** again.

Checking the preset stations (Preset Scan)

1 Press **PS/A.ME** briefly.
Each preset station will be tuned in for 5 seconds in order.

To cancel Preset Scan, press **PS/A.ME** again or any preset station button.

Presetting stations manually

(Manual Memory)

1 Press **FNC** repeatedly to select the desired band (FM1, FM2, FM3, AM1 or AM2).

2 Press **TUNE▲** or **TUNE▼** to tune in to a desired station (see "Tuning in to a station," page 3).

3 Press the desired preset station button until the unit beeps.

Note

A newly preset station replaces the station on the same band that was previously stored on that preset station button.

Tuning in to a preset station

1 Press **FNC** repeatedly to select the desired band (FM1, FM2, FM3, AM1 or AM2).

2 Press the preset station button on which the desired station is stored.

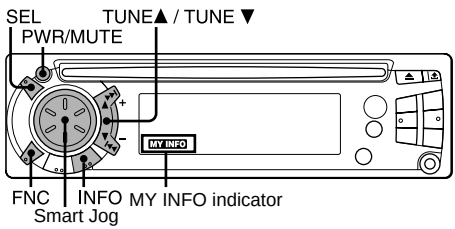
Active tuning reception control (ATRC)

The unit automatically suppresses FM noise caused by vehicle movement, and maintains sound quality.

Using the timer

(My Information)

You can schedule the radio to activate for daily radio programs. The unit automatically turns on and off in Radio mode at the scheduled times.



Setting the timer

1 Turn off the unit.

2 Press and hold **INFO** until "PO" flashes in the display.

3 Press **SEL**.

4 Set the time you wish the unit to turn on.

• Press **TUNE▲** and turn the Smart Jog to set the hour.

• Press **TUNE▼** and turn the Smart Jog to set the minute.

5 Press **SEL**.

6 Press **FNC** to select the band.

7 Press **TUNE▲**, **TUNE▼** or the desired preset station button to select the station.

8 Press **SEL**.

9 Set the time you wish the unit to turn off following the same procedure used in step 4.

10 Press and hold **INFO** until the unit turns off, and setting is completed.
When the unit is on, "MY INFO" appears in the display indicating that the unit is standby for a timer. During the timer-activated tuning, "MY INFO" continues to flash.
To cancel the timer standby, press **INFO** so that "MY INFO" disappears.

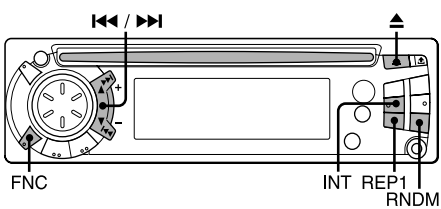
Note

- To discontinue the timer setting, press and hold **PWR/MUTE** until the unit turns off.
- To check the setting, turn off the unit, then press **INFO**. The unit displays the scheduled turn-on and turn-off times with the appropriate radio frequency.
- The unit automatically starts tuning at the scheduled time regardless of the current source mode. When the scheduled program is over, the unit automatically returns to the former source mode.
- Timer setting remains enabled even if you turn off the unit, and then turn it on. This is true even if you detach the front panel, and reattach it.
- However, if you press **FNC** to change the source mode during timer-activated tuning, the scheduled program is canceled.

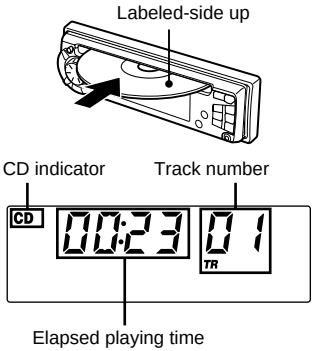
CD PLAYER OPERATION

Playing a CD

You can play CDs, CD-Rs and CD-RWs using the procedure described below.



1 Insert a CD.
"CD" appears in the display.
CD play starts.
If a CD is already inserted, press **FNC** repeatedly to select CD play mode.
In normal play, when the last track finishes, the unit returns to the first track and continues to play.



To	Press
Eject a CD	⏏
Skip to the next track	►►I
Go back to the beginning of the current track Each extra press skips backward one extra track	I◄◄
Locate a specific point in a track	Press and hold I◄◄ or ►►I until you find the point.

Note

- When you play a CD that is already inserted, CD play starts at the point where it stopped the previous time. A newly inserted CD starts from the first track.
- A CD-R or CD-RW may take some time to start playing back, but this is not a malfunction.
- If a CD-R or CD-RW with no data or incompatible data is inserted, "E03" will appear in the display. The unit cannot play such discs.

Intro Play

You can locate a desired track by monitoring the first 10 seconds of all the tracks on a CD.

1 Press **INT** during CD play.
"SCAN" appears in the display.
2 Press **INT** again when the desired track is played.
The unit returns to normal CD play.

One track Repeat Play

You can play a track repeatedly.

1 Press **REP1** during CD play.
"REPEAT1" appears in the display.

To cancel One track Repeat Play, press **REP1** again.

Random Play

You can play all the tracks in random order.

1 Press **RNDM** during CD play.
"RANDOM" appears in the display.

To cancel Random Play, press **RNDM** again.

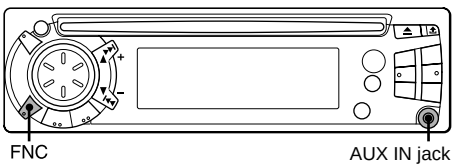
Note

During Random Play, pressing I◄◄ allows you to skip only to the beginning of the current track, not to the previous track.

AUXILIARY EQUIPMENT

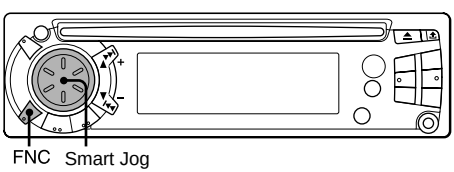
Listening to a cassette/MD/MP3 portable player or other equipment

You can listen to equipment connected to the unit. Refer to the operating instructions for the corresponding equipment for more detailed information.
Be sure to remove inserted CDs to prevent possible damage to the unit before connecting the equipment.



1. Connect a cassette/MD/MP3 portable player or other equipment via the unit's AUX IN jack (3.5 mm).
2. Press **FNC** repeatedly until "AUX" appears in the display.
   During AUX mode, the clock display appears.

OTHER FUNCTIONS



Changing the key illumination color (CDC-X517M and CDC-X417)

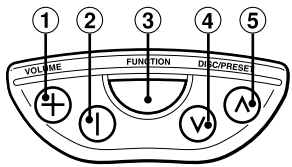
You can choose blue or red as the key illumination color.

1. Press and hold **FNC** until "ILL" appears in the display.
2. Turn the Smart Jog to select 1 (for blue) or 2 (for red).

STEERING WHEEL REMOTE CONTROL

(CDC-X517M and CDC-X417)

Remote control button



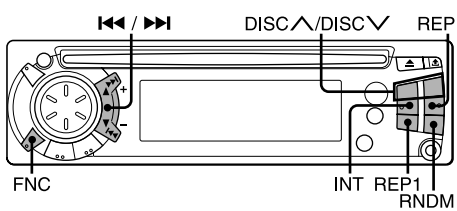
① **VOLUME + button:** To increase the volume.
② **VOLUME − button:** To decrease the volume.
③ **FUNCTION button:** To select Radio, CD Play, CD Changer Play (CDC-X517M only) or AUX IN mode.
④ **DISC/PRESET ⋁ button:**
(CD) To skip back to the beginning of the current track. Each extra press skips backward one extra track.
(Radio) To tune in to the next preset station, in descending order.
(**CD Changer**: CDC-X517M only)
Press and release to skip back to the beginning of the current track or the previous track.
Press and hold to switch to the previous CD.
⑤ **DISC/PRESET⋀ button:**
(CD) To skip to the next track.
(Radio) To tune in to the next preset station, in ascending order.
(**CD Changer**: CDC-X517M only)
Press and release to skip to the next track.
Press and hold to switch to the next CD.

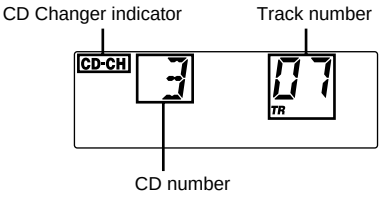
CD CHANGER OPERATION

(CDC-X517M only)

Playing a CD

You can play CDs from a connected AIWA CD Changer. For detailed information on installing a CD Changer, refer to the Installation and Connection manual supplied with the CD Changer.





1 Press **FNC** repeatedly to display "CD-CH."
The CD Changer play starts.

To	Press
Skip to the next track	▶▶I
Skip back to the beginning of the current track or to the previous track	I◀◀
Advance rapidly to locate a desired point	and hold ▶▶I, then release it at the desired point
Reverse rapidly to locate a desired point	and hold I◀◀, then release it at the desired point
Start CD Changer play from the first track on the next disc	DISC ∧
Start CD Changer play from the first track on the previous disc	DISC ∨

Intro Play

You can locate a desired track by monitoring the first 10 seconds of all the tracks on the CDs in the disc magazine.

1 Press **INT** during CD Changer play.
"SCAN" appears in the display.
2 Press **INT** again when the desired track is played.
The unit returns to normal CD play.

One track Repeat Play

You can play a track repeatedly.

1 Press **REP1** during CD Changer play.
"REPEAT1" appears in the display.

To cancel Repeat Play, press **REP1** again.

One disc Repeat Play

You can play all tracks on a disc repeatedly.

1 Press **REP** during CD Changer play.
"REPEAT" appears in the display.

To cancel Repeat Play, press **REP** again.

Random Play

You can play all the tracks on the CDs in the disc magazine in random order.

1 Press **RNDM** during CD Changer play.
"RANDOM" appears in the display.

To cancel Random Play, press **RNDM** again.

Note

Pressing I◀◀ during Random Play locates the beginning of the current track. The unit does not retrieve previous tracks during Random Play.

TROUBLESHOOTING

Error code

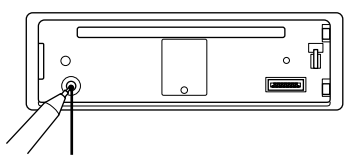
In the following cases the corresponding error code indication appears. Follow the suggestions below to solve such problems. If the error code indication does not disappear, consult an AIWA service center.

E01* The disc magazine is not properly inserted in the CD Changer. Reinsert the magazine. Refer to the instruction manual for the CD Changer.
E02* No CDs are loaded in the disc magazine. Insert CDs properly. Refer to the instruction manual for the CD Changer.
E03 Focus error. Check that the CD is loaded properly (right side up, etc.), and the CD contains valid data.
E04* Problem with the CD Changer. Reset the unit by pressing the Reset button. If this does not solve the problem, consult an AIWA service center.

* CDC-X517M only

Reset button

If a CD does not operate properly, press the reset button with a pointed object such as a pencil, etc. Note that all your settings will be erased if this button is pressed.



MAINTENANCE

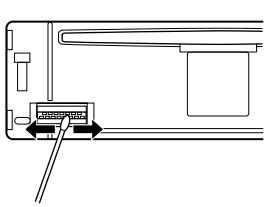
Cleaning the front panel

Wipe the surface with a soft, dry cloth.

Cleaning the connector

The connector needs to be cleaned occasionally. Wipe the surface of the connector with a cotton swab slightly moistened with alcohol.

Back of the front panel



SPECIFICATIONS

RADIO SECTION

(FM)

Frequency Range: 87.5 MHz – 108 MHz (100-kHz steps)* or 87.5 MHz – 108 MHz (50-kHz steps)*
Usable Sensitivity: 12.7 dBf
50 dB Quieting Sensitivity: 17.2 dBf
IF Rejection: 80 dB
Frequency Response: 30 Hz – 15,000 Hz
S/N Ratio: 63 dB
Stereo Separation: 35 dB at 1 kHz
Alternate Channel Selectivity: 70 dB
Capture Ratio: 3 dB

(AM)

Frequency Range: 530 kHz – 1,710 kHz (10-kHz steps)* or 531 kHz – 1,602 kHz (9-kHz steps)*
Usable Sensitivity: 30 µV (30 dB)

9k 10k

*** Set the frequency increment for your area using the switch on the bottom of the unit.** (The switch is factory-set to the 10k position [for the U.S.A.])

CD SECTION

Frequency Response: 17 Hz – 20 kHz +0/–3 dB
Dynamic Range: More than 80 dB
Channel Separation: More than 65 dB
S/N Ratio: More than 85 dB
Wow/Flutter: Not applicable

AUDIO SECTION

Max. Power Output: 50 W × 4 channels (CDC-X517M), 45 W × 4 channels (CDC-X417, CDC-X317)

AUX IN input

Input sensitivity (load impedance) AUX IN: 300 mV (10 kΩ)

GENERAL

Power-Supply Voltage: 14.4 V (11 to 16 V allowable), DC, negative ground
Load Impedance: 4 Ω
Tone Control:
Bass ± 10 dB at 100 Hz, Treble ± 10 dB at 10 kHz
Preamp Output Voltage (load impedance): 2.2 V (10 kΩ)
Installed size: 182 (W) × 53 (H) × 155 (D) mm (7 1/4 (W) × 2 1/8 (H) × 6 1/8 (D) inches)
Supplied Accessory: Carrying case (1)

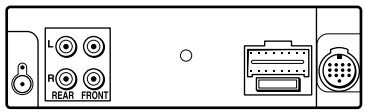
STEERING WHEEL REMOTE CONTROL (CDC-X517M and CDC-X417)

Dimensions: approx. 67 (W) × 26 (H) × 27 (D) mm (2 3/4 (W) × 1 1/16 (H) × 1 1/8 (D) inches) (excluding holder)
Weight: approx. 38 g (1.33 oz.) (including holder, battery)
Supplied Accessories: Mounting kit (1 set), Lithium battery (1)

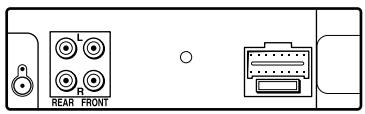
• Specifications and external appearance are subject to change without notice due to product improvement.

REAR PANEL

CDC-X517M



CDC-X417, CDC-X317



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